

WHAT IS CLAIMED IS:

1. A connector for connecting a plurality of signal lines to a specific electronic apparatus which uses the signal lines, the connector comprising:

5       a first structural unit which includes a board having a plurality of contact pads to be electrically connected to said plurality of signal lines and a substantially hollow cylindrical shaft to rotate, said shaft passing through the board, extending  
10       perpendicular to the board and having a projecting part protruding from one side; and

      a second structural unit which includes a bottom, a plurality of spring contact sections provided on the bottom and a rotatable roller provided on the bottom,  
15       each of the spring contact sections facing, at one end, the corresponding one of the contact pads and being connectable, at the other end, to the specific electronic apparatus,

      wherein the first structural unit is to be  
20       inserted, in part, into the second structural unit, and the roller comes close to the shaft when the shaft and a part of the first structural unit are inserted into the second structural unit, and when the first structural unit is inserted, in part, into the second  
25       structural unit and the shaft is rotated through a specific angle, the projecting part comes to a position beneath to push the board against the contact sections,

thereby to bring the contact pads into contact with the contact sections, respectively.

2. The connector according to claim 1, wherein  
the board has a grounding conductive pattern  
5 section on its periphery,

the first structural unit has a frame section  
with a conductive surface for supporting the board,  
with the conductive surface of the frame section being  
electrically connected to the conductive pattern  
10 section,

the second structural unit has a housing with  
a conductive surface, with a plurality of conductive  
springs being provided in specific positions on the  
bottom surface of the housing, and

15 the frame section and the housing are configured  
to be electrically connectable to each other via the  
conductive springs.

3. The connector according to claim 1, wherein  
said plurality of contact sections are composed of  
20 a contact module in which a plurality of contact  
sections are previously arranged.

4. The connector according to claim 3, wherein  
the contact module is composed of a plurality of  
subdivided contact modules.

25 5. The connector according to claim 1, wherein  
the roller is so provided that it is higher in position  
than the circuit board of the specific electronic

apparatus on which the connector is to be mounted.

6. The connector according to claim 1, wherein the first structural unit has a protective cover for protecting the contact pads under the board.

5           7. The connector according to claim 1, wherein said plurality of contact sections have connecting terminals projecting downward with respect to the bottom.

10           8. The connector according to claim 1, wherein the bottom has an alignment pin and/or a mounting hole for making alignment with the circuit board of the specific electronic apparatus on which the connector is to be mounted.

15           9. The connector according to claim 1, wherein the rotatable roller is mounted on a cylindrical bushing provided on the bottom.